## SOLARIS GROUP, DIVISION OF MONSANTO CO -- 1992-W ORTHO MALATHION 50 PLUS INSECT SPRAY -- -

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Product Identification
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Product ID: 1992-W ORTHO MALATHION 50 PLUS INSECT SPRAY
MSDS Date: 07/26/1995
FSC:NIIN:Submitter:F BT
Status Code: A
MSDS Number: CJFFM
=== Responsible Party ===
Company Name: SOLARIS GROUP, DIVISION OF MONSANTO CO
Box:5008
City:SAN RAMON
State:CA
ZIP:94583-0808
Country: US
Emergency Phone Num: 800-454-2333/800-225-2883
CAGE: NO549
=== Contractor Identification ===
Company Name: SOLARIS GROUP, DIVISION OF MONSANTO CO
Box:5008
City:SAN RAMON
State:CA
ZIP:94583-0808
Country: US
Phone: 800-225-2883
CAGE: NO549
               Composition/Information on Ingredients
=========
                                                       =========
Ingred Name: MALATHION, DIMETHYL DITHIOPHOSPHATE - DIETHYL
    MERCAPTOSUCCINATE
CAS: 121-75-5
RTECS #:WM8400000
= Wt:50.
OSHA PEL:15 MG/CUM (SKIN)
ACGIH TLV:10 MG/CUM
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS
Ingred Name: INERT INGREDIENTS
= Wt:50.
                       Hazards Identification
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                                               LD50 LC50 Mixture:ORAL LD50 (MALE RAT): 2.314 G/KG
Routes of Entry: Inhalation:YES
                               Skin:NO
                                          Ingestion: YES
Reports of Carcinogenicity:NTP:NO
                                    IARC: NO
                                                OSHA: NO
Health Hazards Acute and Chronic: EYES: MODERATELY IRRITATING W/BLURRED
    VISION. SKIN: IRRITATION.MAY BE ABSORBED THROUGH THE SKIN.
    INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE SYSTEMIC POISONING.
    ASPIRATION MAY OCCUR WHEN VOMITING,
                                         CAN
                                              DIRECTLY ENTER LUNGS &
    CAUSE SEVERE INJURY/DEATH. INHALATION: HARMFUL W/PROLONGED/REPEATED
    EXPOSURE. OVEREXPOSURE TO THE PRODUCT MAY CAUSE CHOLINESTERASE
    INHIBITION, WHICH IN UNTREATED SEVERE POISONI NG, DEATH IS DUE TO
    RESPIRATORY FAILURE/CARDIAC ARREST.
Explanation of Carcinogenicity: NONE
Effects of Overexposure: IRRITATION, DISCOMFORT, TEARING, SWELLING,
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REDNESS, BLURRED VISION, BLISTERING, VOMITING. SIGNS & CHOLINESTERASE INHIBITION: HEADACHE, DIZZINESS, WEAKNESS, NAUSEA, DIARRHEA, CONSTRICTION OF THE PUPIL OF THE EYE, BLURRED/DARK VISION, SALIVATION, NASAL DISCHARGE, SWEATING, ABDOMINAL CRAMPS, UNCONSCIOUSNESS, CONVULSIONS, BREATHING DIFFICLULTIES,

First Aid:EYES: IMMEDIATELY FLUSH W/FRESH WATER FOR 15 MINS. REMOVE CONTACT LENSES. SKIN: WASH W/PLENTY OF SOAP & WATER. INGESTION: GIVE WATER/MILK TO DRINK. DON'T MAKE PERSON VOMIT UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. INHALATION: REMOVE TOFRESH AIR. APPLY ARTIFICIAL RESPIRATION. OBTAIN MEDICAL ATTENTION IN ALL CASES. NOTES TO PHYSICIAN: MEASUREMENT OF BLOOD CHOLINESTERASE ACTIVITY MAY BE USEFUL I N MONITORING EXPOSURE. ATROPINE SULFATE IS ANTIDOTAL. 2-PAM (PROTOPAM) IS ALSO ANTIDOTAL & MAY BE USED IN CONJUNCTION W/ATROPINE BUT SHOULD NOT BE USED ALONE.

========== Fire Fighting Measures ===============

Flash Point Method:TCC
Flash Point:=41.1C, 106.F

Extinguishing Media:CO2, DRY CHEMICAL, FOAM, WATER FOG
Fire Fighting Procedures:AVOID PERSONNEL & EQUIPMENT CONTACT
W/FALLOUT/RUNOFF. MINIMIZING THE AMOUNT OF WATER USED. DON'T ENTER
ANY ENCLOSED AREA W/O FULL PROTECTIVE EQUIPMENT & W/SELF CONTAINED
BREATHING APPARATUS. CONTAIN/ ISOLATE RUNOFF & DEBRIS.
DECONTAMINATE PERSONAL PROTECTIVE EQUIPMENT BEFORE REUSE. READ
ENTIRE DOCUMENT.

Unusual Fire/Explosion Hazard:LIQUID EVAPORATES & FORMS VAPOR WHICH CAN CATCH FIRE & BURN W/EXPLOSIVE VIOLENCE. INVISIBLE VAPOR SPREADS EASILY & CAN BE SET ON FIRE BY SOURCES OF IGNITION. FIRE HAZARD IS GREATER AS LIQUID TEMPERATU RE RISES ABOVE 85F.

======== Accidental Release Measures ==========

Spill Release Procedures: SMALL: SOAK UP MATERIAL W/PAPER TOWELS/OTHER ABSORBENT MATERIAL & DISCARD IN TRASH. KEEP ALL SOURCES OF IGNITION AWAY. LARGE: ELIMINATE IGNITION SOURCES. LIQUID SHOULD BE CONTAINED/DIKED & ABSORBED W/ ATTAPULGITE, BENTONITE/OTHER ABSORBENT MATERIAL. COLLECT ABSORBENT, PLACE IN PLASTIC-LINED METAL DRUM & DISPOSE OF.THOROUGHLY SCRUB FLOOR W/A STRONG INDUSTRIAL TYPE DETERGENT SOLUTION & RINSE W/WATER.

Handling and Storage Precautions:DON'T PUT CONCENTRATE/DILUTE INTO FOOD/DRINK CONTAINERS. STORE IN A SECURE, PREFERABLY LOCKED, STORAGE AREA. DON'T STORE DILUTED SPRAY. KEEP PESTICIDE IN ORIGINAL CONTAINER. PARTIALLY FILLED PRODUCT C ONTAINER MAY BE SECURELY WRAPPED IN SEVERAL LAYERS OF NEWSPAPER & DISCARDED IN TRASH.

Other Precautions:DON'T REUSE CONTAINER. DON'T STORE DILUTED SPRAY.

AVOID BREATHING SMOKE & MIST. READ THE ENTIRE DOCUMENT. DON'T GET

MATERIAL IN YOUR EYES. AVOID CONTACT W/EYES, SKIN & CLOTHING.

===== Exposure Controls/Personal Protection ========

Respiratory Protection: IN THE EVENT OF AN ACCIDENTAL DISCHARGE OF THE MATERIAL DURING MANUFACTURE/HANDLING, WORKERS SHOULD PUT ON RESPIRATORY PROTECTION EQUIPMENT SPECIFIED BY NIOSH/MSHA/BY

## MANUFACTURER.

Ventilation: IF OPERATING CONDITIONS CREATE AIRBORNE CONCENTRATIONS WHICH EXCEED THE RECOMMENDED EXPOSURE STANDARDS,

Protective Gloves: CHEMICAL RESISTANT

Eye Protection: CHEMICAL GOGGLES/FACE SHIELD

Other Protective Equipment: PROTECTIVE CLOTHING.

Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

NO REPRESENTATIONS/WARRANTIES, EITHER EXPRESS/IMPLIED OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE/OF ANY OTHER NATURE ARE MADE W/RESPECT TO INFORMATION /THE PRODUCT TO WHICH INFORMATION REFER S.

======== Physical/Chemical Properties ==========

Vapor Pres:<10
Vapor Density:4.5
Spec Gravity:1.040 TO 1.055
pH:5-8 1% SOL.
Solubility in Water:MISCIBLE
Appearance and Odor:AMBER LIC

Appearance and Odor: AMBER LIQUID W/GARLIC LIKE ODOR.

======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES
STRONG BASES/STRONG OXIDIZING AGENTS; CHORATES, NITRATES, PEROXIDES
Stability Condition to Avoid:TEMP >212F, HEAT, SPARKS, HOT SURFACES &
OTHER IGNITION SOURCES.

Hazardous Decomposition Products:BY THERMAL DECOMPOSITION:
DIMETHYLSULFIDE, SULFUR DIOXIDE, CO, CO2, PHOSPHOROUS-PENTOXIDE &
NITROGEN OXIDES.

Conditions to Avoid Polymerization: TEMPERATURES >212F.

========= Ecological Information =============

Ecological: THIS PESTICIDE IS TOXIC TO FISH, AQUATIC INVERTEBRATES & AQUATIC LIFE STAGES OF AMPHIBIANS. DON'T APPLY DIRECTLY TO WATER. DRIFT & RUNOFF MAY BE HAZARDOUS TO AQUATIC ORGANISMS IN AREAS NEAR THE APPLIC ATION SITE. DON'T CONTAMINATE WATER WHEN DISPOSING OF EQUIPMENT WASHWATERS. THIS PRODUCT IS HIGHLY TOXIC TO BEES EXPOSED TO DIRECT TREATMENT ON BLOOMING CROPS/WEEDS. DON'T APPLY THIS PRODUCT/ALLOW IT TO DRIFT TO BLOOMING CROPS/WEEDS.

====== Disposal Considerations ===========

Waste Disposal Methods:LEAKING CONTAINERS SHOULD BE SEPARATED FROM NON-LEAKERS & EITHER THE CONTAINER/ITS CONTENTS TRANSFERRED TO A DRUM/OTHER NON-LEAKING CONTAINER & DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULA TIONS. DON'T CONTAMINATE WATER, FOODSTUFFS/FEED BY STORAGE/DISPOSAL.

======= MSDS Transport Information ===========

Transport Information: U.S. SURFACE FREIGHT CLASS: INSECTICIDES, FUNGICIDES, INSECT/ANIMAL REPELLENTS/VERMIN EXTERMINATORS, NO1, OTHER THAN POISON. SPECIAL SHIPPING NOTES: THE DESCRIPTION SHOWN MAY NOT APPLY TO ALL SHIPPING SITUATIONS.

========== Regulatory Information ==============

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SARA Title III Information:SARA TITLE III SUPERFUND AMENDMENTS & REAUTHORIZATION ACT.PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA: ACUTE: YES, CHRONIC: NO. FIRE: YES. REACTIVITY: NO, PRESSURE GENERATING: NO. TSCA (TOXIC SUB STANCE CONTROL ACT): ALL NON FIFRA REGULATED COMPONENTS ARE ON THE US EPA'S TSCA INVENTORY LIST.

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